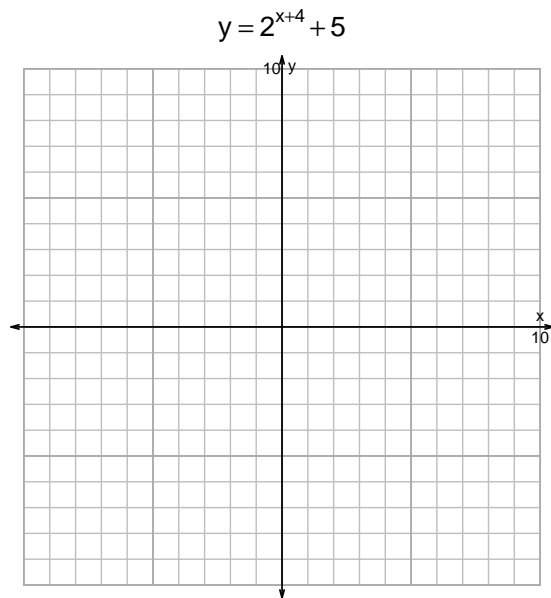
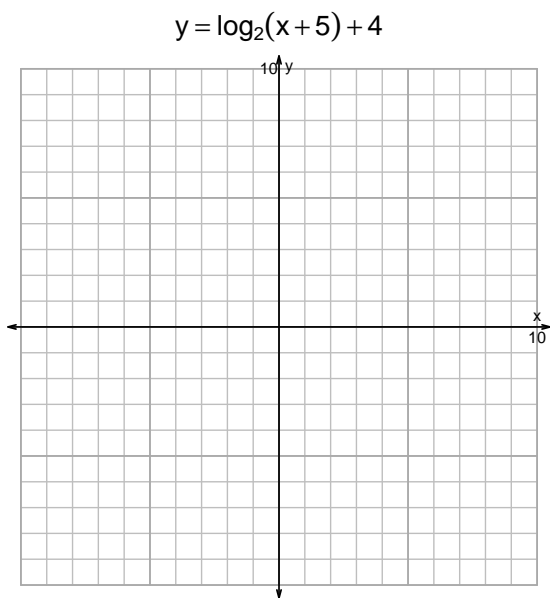


Name: _____

Date: _____

S18QUIZ: EXP LOG (EXAMPLE v7)

1. Graph $y = \log_2(x + 5) + 4$ and $y = 2^{x+4} + 5$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-17 = \left(\frac{-5}{4}\right) \cdot 10^{3t/7}$$

3. An exponential function $f(x) = 27 \cdot e^{1.59x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(0.6)$.

- b. Express $f^{-1}(x)$, the inverse of f .

- c. Using the plot above, evaluate $f^{-1}(4)$.